10/57455**5**

IN THE UNITED STATES PATENT AND TRADEMA

Gunter Rogoll at al. Applicant:

Serial No:

Art Unit:

Filing Date:

Title:

DIAGNOSTIC SYSTEM FOR A MODULAR FIELDBUS BOARD

Priority App.: Country: Great Britain; No.:0323178.4; Filing Date: October 3, 2003

PCT Application: No.: PCT/GB2004/004077 Filing Date: September 24, 2004

March 29, 2006

Attorney's Docket No.: MSA265R1

CLAIM OF PRIORITY

Hon. Commissioner of Patents and Trademarks P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to Title 35, United States Code, Section 119 (1952), the undersigned hereby claims the benefit of the filing date of a prior foreign patent application forming a basis of the PCT application viz.:

Country:

Great Britain

Application No.: 03231178.4

Date of Filing:

October 3, 2003

In support of this claim, a certified copy of the aforementioned foreign patent applications is believed to have been submitted by the World Intellectual Property Organization and should have been received by the United States Patent and Trademark Office prior to the expiration of 20, or respectively 30, months from the first priority date of the application.

Respectfully submitted,

Gunter Rogoll et al.

Horst M. Kasper, their attorney, 13 Forest Drive, Warren, N.J. 07059 Tel.:(908)757-2839 Fax:(908)668-5262

Reg. No. 28559; Docket No.: MSA265

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CERTIFIED COPY OF PRIORITY DOCUMENT

The Patent Office Concept House Cardiff Road Newport South Wales NP10 8QQ

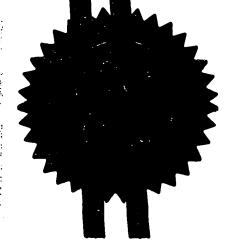
the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) f the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the omptroller-General, hereby certify that annexed hereto is a true copy of the documents as iginally filed in connection with the patent application identified therein.

lso certify that the attached copy of the request for grant of a Patent (Form 1/77) bears an endment, effected by this office, following a request by the applicant and agreed to by the mptroller-General.

accordance with the Patents (Companies Re-registration) Rules 1982, if a company named his certificate and any accompanying documents has re-registered under the Companies Act 0 with the same name as that with which it was registered immediately before restration save for the substitution as, or inclusion as, the last part of the name of the words plic limited company" or their equivalents in Welsh, references to the name of the company is certificate and any accompanying documents shall be treated as references to the name which it is so re-registered.

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Registration under the Companies Act does not constitute a new legal entity but merely subjects the company to certain additional company law rules.



Signed

tevens.

Dated

2 February 2006

Patents Form 1/77

Patents Act 1977 (Rule 16)



030CT03 E845992-2 C43216 P01/7700 0,00-0323178,4

The Patent Office

Cardiff Road Newport South Wales NP10 BQQ

Request for grant of a patent

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this form)

1. Your reference

PLD

2. Patent application number (The Patent Office will fill in this part)

umber (1 in this part) 0323178.4

- 3 OCT 2003

 Full name, address and postcode of the or of each applicant (underline all surroums)

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

Gunther <u>Rogoll</u> and Renato <u>Kitchener</u> 20 Elmcroft Place Westergate

West Sussex PO20 3XL 8777757001

4. Title of the invention

Physical layer diagnostics.

5. Name of your agent (If you have one)

Patents ADP number (If you know It)

Address for service in the United Kingdom to which all correspondence should be sent (including the postcode)

Ren Kitchener 20 Elmoroft Place Westergate West Sussex PO20 3XL 8777740001 C.f. Redfern 460 7 skaple Inn Volbon London London WCIV 705 1412002

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number (if you know it)

Date of filing (day / month / year)

 If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application Number of earlier application

Date of filing (day / month / year)

 is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer Yes' it.)

- a) any applicant named in part 3 is not an inventor, or
- b) there is an inventor who is not named as an applicant, or
- c) any named applicant is a corporate body.
 5ee note (d))

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 Enter the number of sheets for any of the following items you are filing with this form.
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Description

Claim(s)

ha

Abstract

Drawing(s) 1 wy

If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Focas 7/77)

Request for preliminary examination and search (Pateus Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

I/We request the grant of a patent on the basis of this application.

Signature

Allan_

Date 03 Oct 03

 Name and daytime telephone number of person to contact in the United Kingdom Ren Kitchener 01243 545 595

Warning

11.

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be prohibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

Notes

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Patents Form 1/77

DESCRIPTION PAGE 1 of 1

Fieldbus physical layer and power supply diagnostics

A diagnostic system 17 is utilized to provide diagnostic data for an operator via a digital and/or analogue interface 16 and/or via visual means 14.

A modular system comprising one or more simplex and/or redundant power supplies and/or conditioners 3, 5 and a replaceable segment autonomous diagnostic system 17 contained within, or on, a modular backplane 15, with digital and/or analogue link 16 and/or19 to other said systems as an option.

The diagnostic system 17 may derive power from the bulk power supply 1 and/or from other external power source.

Physical layer diagnostic means may comprise one or more of the following;

Over/under termination warning and/or alarm, noise/ripple level warning and/or alarm, signal level warning and/or alarm, signal bias and/or jitter and/or ringing warning and/or alarm, signal distortion warning and/or alarm, signal attenuation warning and/or alarm, cross talk warning and/or alarm, unbalance warning and/or alarm, earth leakage detection and/or alarm.

Or any hardware related alarms might include one or more of the following:

Bulk supply 1 voltage warning and/or alarm, segment 8a to 8n short circuit warning and/or alarm, any module 3, 5, 17 failure warning and/or alarm. Quiescent current warning and/or alarm including rate of change.

Diagnostics may include Fourier analysis, trending, data logging and other statistical analysis/reporting.

Diagnostics may be derived from one ore more direct and/or indirect common mode 2, 4, 6 and/or differential mode 7 injection and/or detection 9, 10, 11, 12, 13, 18 methods.

Part of the diagnostic components may reside within the modules 3, 5 15.

DRAWINGS PAGE 1 of 1

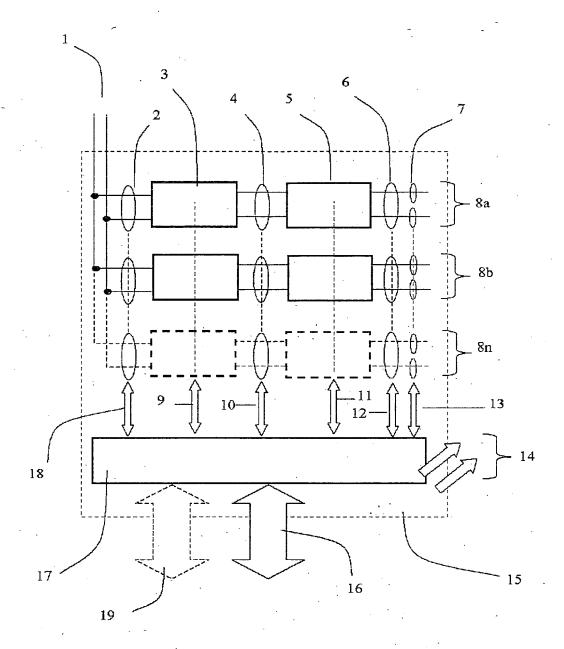


FIGURE 1